

ABSTRACT OF THE DISCLOSURE

A method for adjusting the equivalent series resistance (ESR) of a multi-layer component includes providing at least first and second layers separated by an insulating layer, providing a resistive layer between the insulating layer and one of the first or second electrode layers, and adjusting the ESR of the component by varying the effective resistance of the resistive layer. The effective resistance may be varied by adjusting the composition or thickness of the resistive layer. Alternatively, the effective resistance may be varied by forming a plurality of through-holes perforating one of the electrode layers and by then adjusting the respective diameters of selected of the through-holes to vary the extent of coverage on the resistive layer. An additionally disclosed feature of the present subject matter is to incorporate dielectric layers of varied thicknesses to broaden the resonancy curve associated with a particular multi-layer component configuration.

